



DEPARTMENT OF THE NAVY  
COMMANDER NAVAL AIR FORCE  
UNITED STATES PACIFIC FLEET  
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Canc frp: SEP 02

COMNAVAIRPACNOTE 13050  
N421C

**SEP 27 2001**

COMNAVAIRPAC NOTICE 13050

Subj: AIRCRAFT CONFIGURATION LISTING FOR PACIFIC FLEET H-53 AIRCRAFT

Encl: (1) H-53 D/E Aircraft Baseline Configuration List

1. Purpose. To promulgate an aircraft baseline configuration list for H-53 aircraft. This is a complete revision and should be reviewed in its entirety

2. Cancellation. COMNAVAIRPACINST C13050.68D

3. Scope. This instruction applies to all COMNAVAIRPAC activities having reporting custody of H-53 aircraft. Other activities may be tasked to comply with this instruction as directed by this headquarters, functional wing commanders or operational commanders.


4. Discussion

a. Achieving the highest possible force readiness and operational capability requires periodic modification of aircraft/equipment. Because all Type/Model/Series(TMS) aircraft are seldom modified simultaneously, two or more major aircraft configurations may be operational at any given time. Despite this, it is possible to maintain substantial similarity between TMS aircraft, provided a baseline configuration is maintained. Enclosure (1) promulgates the baseline configuration for H-53 aircraft. Airframe changes and equipment items not included in the baseline have either been incorporated in all aircraft or are not required for baseline purposes.

b. Operating activities occasionally require more specific configuration guidance than the baseline provides. Normally, those requirements are generated by operational tasking and/or logistics considerations. In those instances, COMNAVAIRPAC will issue air wing configuration directives which supplement enclosure (1) and provide more specific guidance.

5. Action. Commanding officers of activities having reporting custody of H-53 aircraft shall configure aircraft in accordance with enclosure (1) to the extent material/support exists and no incorporation/retrofit restrictions apply. Recommended changes to the baseline shall be forwarded to COMNAVAIRPAC via the appropriate chain of command.

6. Cancellation Contingency. This notice is cancelled upon receipt of a revised notice of the same subject.

  
M. L. PURCELL  
Chief of Staff

Distribution:

SNDL Parts 1 and 2 (PACFLT only, unless otherwise indicated.)

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21A2 CINCPACFLT  
24J2 Marine Forces Pacific  
42A2 Fleet Air Commands  
46B Aircraft Wing  
31H2 Amphibious Assault Ship  
31N2 Multi-purpose Assault Ship  
46C1 Marine Aircraft Group  
46M2 Aviation Logistics Squadron  
46P2 Marine Helicopter Squadron  
46P4 Marine Helicopter Training Squadron  
FB7 Naval Air Station  
V5 Marine Corps Air Station

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H-53 D/E AIRCRAFT BASELINE CONFIGURATION LIST

## PART I

Engines

T64-GE-413	CH-53D	Two per aircraft
T64-GE-416	CH-53E	Three per aircraft
T64-GE-416A	CH-53E	Three per aircraft

Fuel

Afloat	JP-5
Shore	JP-4/JP-5/JP-8

PART II      Technical directives to be incorporated in equipment.

<u>AFC</u>	<u>Description</u>	<u>CH-53D</u>	<u>CH-53E</u>
201	Infrared Radiation Suppression, Inc of	X	
279	Self-Retaining Bolts, Incorp of	X	
294	Cockpit Lighting/Instrument EMI Mod of		X
305	Rpmt of Engine/Heater/APP Comp Fire Exting		X
313	Main Rotor Head Blade Folding Lines		X
322	Replace Stick Position Indicator & Sensor		X
323	Stick Position Sensors; Replace of		X
328	AN/ARC-186(V) Radio Set		X
332	Inc MIL-H-83282 Hydraulic Fluid		X
338	Improved Fuel Cell High-Level Sensor		X
342	Incorp Strobe-Type Anti-Collision Lights		X
344	Single Pt Cargo Hook/Pendant Improvements		X
346	Mfgr Ramp Uplock Switch Striker Plates	X	X
363	AFCS EMV Prevention		X
373	Oil Cooler Blower Shielding; Removal of		X
374	Hydraulic Return Line in First Stage Hyd		X
375	Searchlight Compatibility for Night Vision	X	X
378	Outboard Floorboard Mounting Hardware	X	X
379	Capacitive Discharge Fuzz Burn-Off Chip		X
380	AN/AAR-47 Missile Warning Set	X	X
381	Main Rotor Pylon Cover Latches		X
382	Cabin Emergency Egress Lighting		X
383	Hydraulic Fluid Replenishment System		X
394	Night Vision Goggles Compatible Cockpit	X	
397	Composite Tail Rotor Blade		X
421	Vickers & Dynapower Hyd Start Motors		X
429	Night Vision Goggles		X
432	ALE-39 POD Mounts	X	X
434	Gun Mount Fittings		X
435	Engine Air Particle Separator Systems		X
437	Engine Exhaust Ducts		X
438	Rotor Blade Manifold Access Hole		X
439	Alternate Source Oil Cooler Radiator Assy		X
444	Cabin Portable Fire Extinguisher		X
447	Cockpit ICS Protective Covers		X
448	Pylon Fold Walking Beam Assy		X

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<u>AFC</u>	<u>Description</u>	<u>CH-53D</u>	<u>CH-53E</u>
450	Doppler Well Cooling/System Mod		X
451	APP Fire Extinguisher/Actuation Cable		X
453	Avionics, AN/ARN-151 GPS	X	X
455	AN/ARC-210(V) Radio Set Installation	X	
457	Tail Rotor Pylon Bulkhead, Station 820		X
462	Primary AC Circuit Breaker Chg		X
463	Ground Idle Adjustment	X	X
467	Main Rotor Head Blade Fold Junction Box		X
469	Ramp Uplock Assy		X
471	Helo Nite Vision Sys, AN/AAQ-16B, AN/APN-217		X
472	AN/ARC-94 HF Radio Relocation		X
476	Dual Mode Searchlights		X
477	Infrared Position Lights	X	
478	Crash Attenuating Pilot/Copilot Seats		X
479	NVG Compatible Exterior Lighting Mod	X	X
481	Infrared Position Lights	X	X
482	Install of NVG Head-Up Display (HUD)		X
483	Incorporation of No. 2 Engine Thermal		X
485	Range Extension/Lft Hnd Util Rcpt Wiring		X
486	Helosat Antenna, Provisions for Install		X
487	Cavity Drains for Tact Bulk Fuel Dist Sys		X
488	ICS Foot Switch, AN/ARC-209(V) 2 FM Rad Sys		X
490	Alt Voltage Source Flt-Critical Avionics		X
491	Tail Rotor Drive Shaft Swashplate Bearing		X
492	Mod to Intermediate Gearbox (IGB) Screen		X
494	RH Main Wiring/Harness Add Suppressor		X
496	LH Main Wiring/Harness Add Right Angle		X
497	Troop Seats, Improved		X
500	VATS for Swashplate Brg Monitor, Install		X
501	AN/AYQ-23 Grd Proximity Warning Sys	X	
502	Crash Attenuating Troop Seats	X	
504	Jumpseat/ICS, Reconfiguration		X
506	Ext Pwr Monitor Panel Upgrade	X	
508	Upper Left Pylon Fuselage Attach Fitting	X	
511	Low Altitude Warning Sys (LAWS)	X	X
512	Magnetic Pickup on the Swashplate		X
514	Modify Bleed Air Sys Selector Valve		X
516	Cabin Overhead, Install of Anti-Chafing		X

## PART III

## a Avionics Equipment

<u>NOMENCLATURE</u>	<u>EQUIPMENT AND REMARKS</u>	<u>CH-53D</u>	<u>CH-53E</u>
AN/AAQ-16B	Forward Looking Infrared (FLIR)		X
AN/AAR-47	IR Warning Receiver	X	X
AN/AIC-14	Intercom Set	X	X
AN/ALE-39	CM Dispenser, Chaff	X	X
AN/ALQ-157(V) 2	Infrared (IR) Jammer	X	
AN/APN-154(V)	Radar Beacon	X	X

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## ionics Equipment (cont)

<u>NOMENCLATURE</u>	<u>EQUIPMENT AND REMARKS</u>	<u>CH-53D</u>	<u>CH-53E</u>
AN/APN-171(V) 4	Radar Altimeter (LO)	X	X
AN/APN-171A(V) 4	Radar Altimeter (LO)	X	X
AN/APN-217(V) 6	Doppler Radar Navigation Set		X
AN/APR-39(V) 1	Radar Warning Receiver	X	X
AN/APR-39(V) 2	Radar Warning Receiver	X	X
AN/APX-64(V)	IFF Transponder Set	X	
AN/APX-72	IFF Transponder Set		X
AN/ARA-25	Auto Direction Finder (UHF)		X
AN/ARA-25A	Auto Direction Finder (UHF)	X	
AN/ARA-50	Auto Direction Finder (UHF)		X
AN/ARC-114A	VHF-FM Radio		X
AN/ARC-174A(V) 2	HF Radio		X
AN/ARC-182(V)	UHF/VHF Radio	X	X
AN/ARC-210(V)	VHF-FM Radio A/J	X	X
AN/ARC-94	HF Radio	X	X
AN/ARN-118(V)	NAV Receiver (TACAN)		X
AN/ARN-126	VOR/ILS Receiving Set (VIR-31A)	X	X
AN/ARN-151(V)	Global Positioning Sys (GPS)	X	X
AN/ARN-52(V)	NAV Receiver (TACAN)	X	
AN/ARN-59(V)	Auto Direction Finder (LF)	X	
AN/ARN-89A	Auto Direction Finder		X
AN/ASQ-215	Digital Data Set	X	
AN/AVS-6(V) 1	Night Vision Imaging System	X	X
AN/AVS-7(V)	Night Vision Goggles/HUD		X
AN/AYQ-23(V)	Ground Proximity Warn Sys	X	X
C-6280(P)/APX	Control Transponder	X	
C-6280A(P)/APX	Control Transponder		X
C-12284/A	Control-Display Nav Unit (CDNU)	X	X
CV-4138/A	Converter, Signal Data		X
KIT-1C/TSEC	Computer, Transponder	X	X
KY-58/TSEC	Secure Voice Equipment (UHF)	X	X
LTN-211	Omega Navigation System		X
TS-1843/APX	Test Set, Transponder	X	
TS-1843( )/APX	Test Set, Transponder		X
VHF-20B	VHF-AM Radio	X	

## b. Electrical Equipment

<u>NOMENCLATURE</u>	<u>EQUIPMENT AND REMARKS</u>	<u>CH-53D</u>	<u>CH-53E</u>
1080Y	Gyro, Vertical	X	X
A/A24G-39	Attitude Heading Reference Sys		X
AAU-9A	Indicator, Vertical Velocity	X	
AAU-21/A	Altimeter, Encoding	X	
AAU-24/A	Altimeter	X	
AAU-31/A	Altimeter		X
AAU-31/A-1	Altimeter		X
AAU-32/A	Altimeter, Encoding		X
ABU-9A	Clock, Elapsed Time	X	X
ABU-11A	Clock, Aircraft Mechanical	X	X
DAFCS (H-53)	Digital Auto Flight Ctrl Sys		X
AFCS (H-53)	Auto Flight Control Sys	X	

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## b. Electrical Equipment (cont)

<u>NOMENCLATURE</u>	<u>EQUIPMENT AND REMARKS</u>	<u>CH-53D</u>	<u>CH-53E</u>
ID-2314/ARN	Indicator, Course		X
ID-387/ARN	Indicator, Course	X	
ID-663C/U	Indicator, Bearing (BHDI)	X	X
ID-663D/U	Indicator, Bearing (BDHI)	X	X
MA-1	Compass System	X	
MB-1	Compass Magnetic (STBY)	X	X
MD-1	Roll/Pitch Displacement Gyro		X
ML-1	Transmitter, Compass	X	X
PN140100-01-01	Attitude Indicator	X	
TRU-2A/A	Gyro, Rate of Turn	X	X